Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A device to manage a plurality of arithmetic flags, wherein an M bit set of arithmetic flags is associated with each of a plurality of data items of varying field sizes within words of N bits, an N bit word, M and N being positive integers, comprising:

a status register to store a word including a plurality of sets of arithmetic flags, each set associated with one of a plurality of data items of varying field sizes and having M bits;

a combination function module to examine one of the N bit words comprising the word stored in the status register a plurality of sets of arithmetic flags; to determine a data item field size for the word, and based on the determination of the data item field size to logically combine the plurality of arithmetic flags of the sets within the word into a single combined arithmetic flag variable of M bits, and to store the single combined arithmetic flag variable into a second register, wherein, in combining, the combination function module performs an OR operation; and

wherein the plurality of arithmetic flags represent a result status of the plurality of data items after a mathematical operation is performed by a processor on the plurality of data items; and

a condition check module to determine the result status of the combined arithmetic flag variable and cause the processor to execute an appropriate operation based on the result status.

Claim 2 (canceled)

Claim 3 (currently amended): The device recited in claim 1, wherein the field size is based on either a nibble, byte, half word, or word in length.

Claim 4 (original): The device recited in claim 3, wherein the plurality of arithmetic flags further comprise:

a negative data value, a zero data value, a carry out occurrence in a data value, or an

overflow condition in a data item in the plurality of data items.

Claim 5 (canceled)

Claim 6 (currently amended): The device recited in claim [[2]] 1, wherein the result status determined by the condition check module further comprises:

- any data item has overflowed;
- any data item has not overflowed;
- any data item is positive or zero;
- any data item is negative;
- any data item is zero;
- any data item is not zero;
- any data item has a carry out;
- any data item does not have a carry out;
- all data items have overflowed:
- all data items have not overflowed;
- all data items are positive or zero;
- all data items are negative;
- all data items are zero;
- all data items are not zero;
- all data items have a carry out; and
- all data items do not have a carry out.

Claim 7 (currently amended): A method of combining a plurality of arithmetic flags for presentation to a processor, comprising:

determining a field size of the a plurality of sets of arithmetic flags stored in a status register of a processor on which to base a combination process, wherein each set of the plurality of arithmetic flags represent a result status of a data item of a plurality of data items after a mathematical operation is performed by the processor on the plurality of data items item; extracting the plurality of sets of arithmetic flags from the status register based on the

field size;

logically combining the plurality of sets of arithmetic flags based on a function selected when a combination process is selected, wherein the function comprises an OR operation; and storing a result of the combining of the plurality of arithmetic flags in a destination register for access by the processor.

Claim 8 (currently amended): The method recited in claim 7, wherein the field size is based on either a nibble, byte, half word, or word in length.

Claim 9 (original): The method recited in claim 8, wherein the plurality of arithmetic flags further comprise:

a negative data value, a zero data value, a carry out occurrence in a data value, or an overflow condition in a data item in the plurality of data items.

Claim 10 (canceled)

Claim 11 (previously presented): The method recited in claim 7, wherein the function may be used to determine the result status of the plurality of data items, said status comprising:

any data item has overflowed;

any data item has not overflowed;

any data item is positive or zero;

any data item is negative;

any data item is zero;

any data item is not zero;

any data item has a carry out;

any data item does not have a carry out;

all data items have overflowed:

all data items have not overflowed:

all data items are positive or zero;

all data items are negative;

- all data items are zero;
- all data items are not zero:
- all data items have a carry out; and
- all data items do not have a carry out.

Claim 12 (currently amended): An apparatus eomprising a data storage medium for storing instructions, wherein the instructions, when executed by a processor, result in the processor performing a method, the method comprising:

determining a field size of the a plurality of sets of arithmetic flags stored in a status register of a processor on which to base a combination process, wherein each set of the plurality of arithmetic flags represent a result status of a data item of a plurality of data items after a mathematical operation is performed by the processor on the plurality of data items item;

extracting the plurality of <u>sets of</u> arithmetic flags <u>from the status register</u> based on the field size;

logically combining the plurality of sets of arithmetic flags based on a function selected when a combination process is selected, wherein the function comprises an OR operation; and storing a result of the combining of the plurality of arithmetic flags in a destination register for access by the processor.

Claim 13 (currently amended): The apparatus recited in claim 12, wherein the field size is based on either a nibble, byte, half word, or word in length.

Claim 14 (original): The apparatus recited in claim 13, wherein the plurality of arithmetic flags further comprise:

a negative data value, a zero data value, a carry out occurrence in a data value, or an overflow condition in a data item in the plurality of data items.

Claim 15 (canceled)

Claim 16 (previously presented): The apparatus recited in claim 12, wherein the

function may be used to determine the result status of the plurality of data items, said result status comprisine:

- any data item has overflowed;
- any data item has not overflowed;
- any data item is positive or zero;
- any data item is negative;
- any data item is zero;
- any data item is not zero;
- any data item has a carry out;
- any data item does not have a carry out;
- all data items have overflowed;
- all data items have not overflowed;
- all data items are positive or zero;
- all data items are negative;
- all data items are zero:
- all data items are not zero:
- all data items have a carry out; and
- all data items do not have a carry out.

Claims 17 - 22 (canceled)

Claim 23 (currently amended): A system to manage a plurality of arithmetic flags, wherein an M-bit set of arithmetic flags is associated with each of a plurality of data items of varying field sizes within words of N-bits, and N-being positive integers, comprising:

a processor having a first register to store a word including a plurality of sets of arithmetic flags, each set associated with one of a plurality of data items of varying field sizes and having M bits, and a second register to store a single combined arithmetic flag variable of M bits;

a combination function module to examine one of the N bit words comprising a plurality of sets of arithmetic flags, the word to determine a data item field size for the word, and based on the determination of the data item field size to logically combine the plurality of arithmetic flags

of the sets within the word into [[a]] the single combined arithmetic flag variable of M bits, wherein, in combining, the combination function module performs an OR operation; and wherein the plurality of arithmetic flags represent a result status of the plurality of data items after a mathematical operation is performed by [[a]] the processor on the plurality of data items; and

<u>the</u> [[a]] processor including a condition check module coupled to the combination function module, the processor to receive the single combined arithmetic flag variable and to determine the next operation to perform based upon the result status of the single combined arithmetic flag variable.

Claim 24 (previously presented): The system of claim 23, wherein the processor includes at least three stages of pipelining.

Claim 25 (previously presented): The system of claim 24, wherein the at least three stages of pipelining include a fetch stage, a decode stage, and an execute stage.